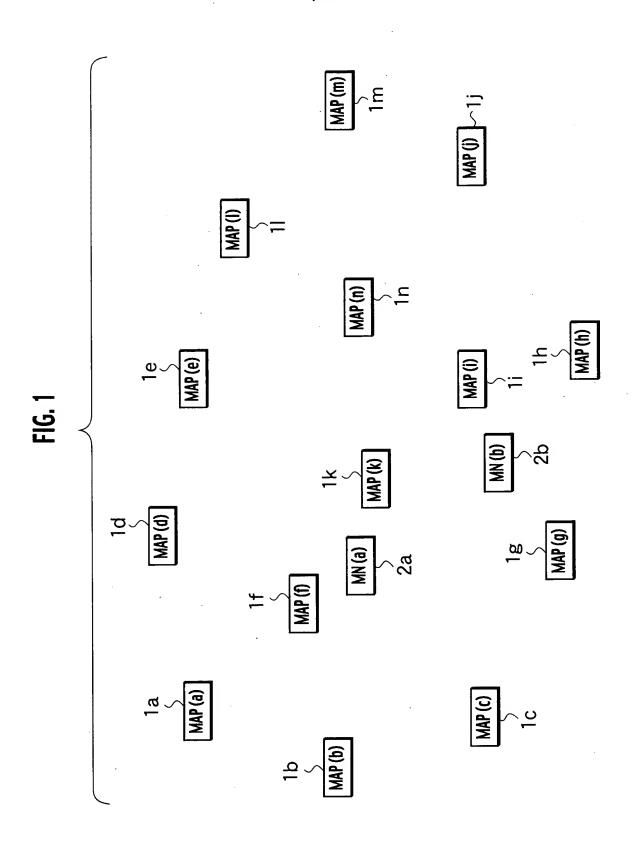
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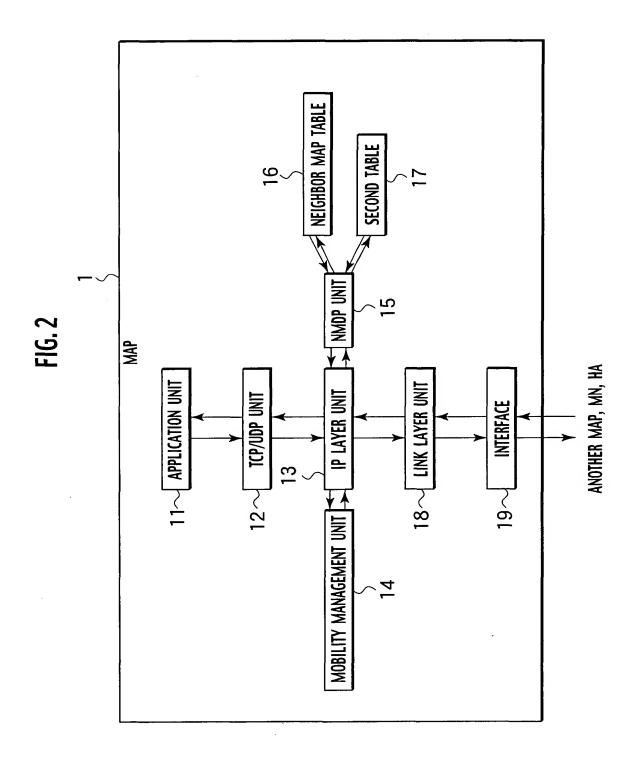


FIG. 3

MAP (k)

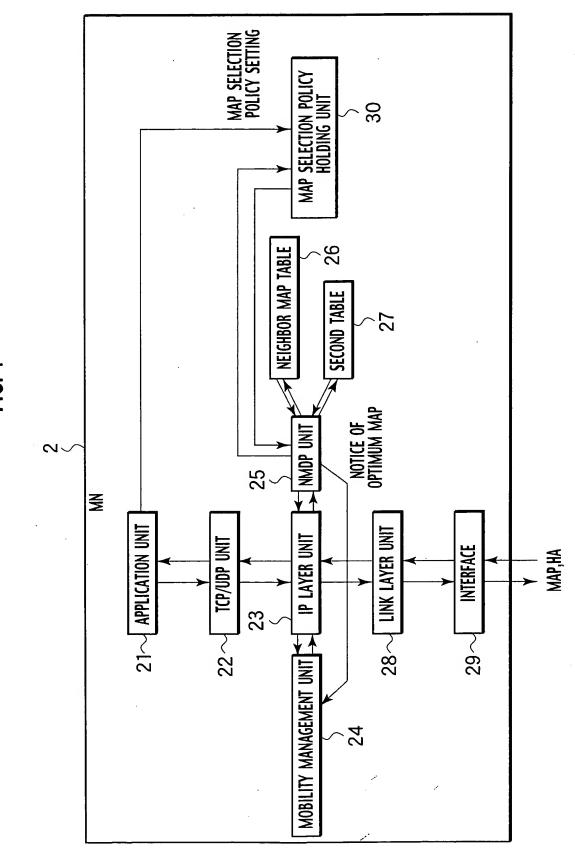
NEIGHBOR MAP TABLE 16k

IP DELAY **FORCED PROCESSING** LIFETIME **SEQUENCE SEQUENCE ADDRESS** VALUE **REGISTRATION** NUMBER 1 NUMBER 2 **CAPABILITY** (sec.) LIFETIME (sec.) (msec.) 10 (MEDIUM) 635 1653 0 0 k 6.5 433 2944 623 f 11 (LOW) 1652 O1 (HIGH) 122 1650 0 6.8 10 (MEDIUM) 7.3 61 1649 0 n OO (HIGHEST) 13.0 122 1650 0 g

SECOND TABLE 17k

SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	111.5265
SMOOTHING FACTOR α	0.5

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16.4

FIG. 5

MN(a)

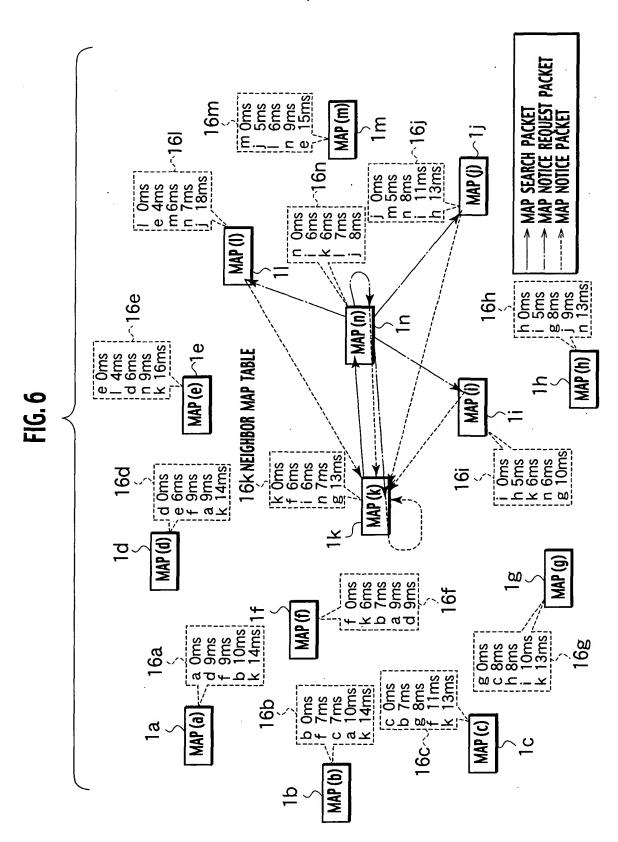
NEIGHBOR MAP TABLE 26a

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1
f	2.3	10 (MEDIUM)	22	666
k	3.3	10 (MEDIUM)	22	666
b	4.1	O1 (HIGH)	30	667
а	5.9	OO (HIGHEST)	18	663
d	9.9	11 (LOW)	18	663

SECOND TABLE 27a

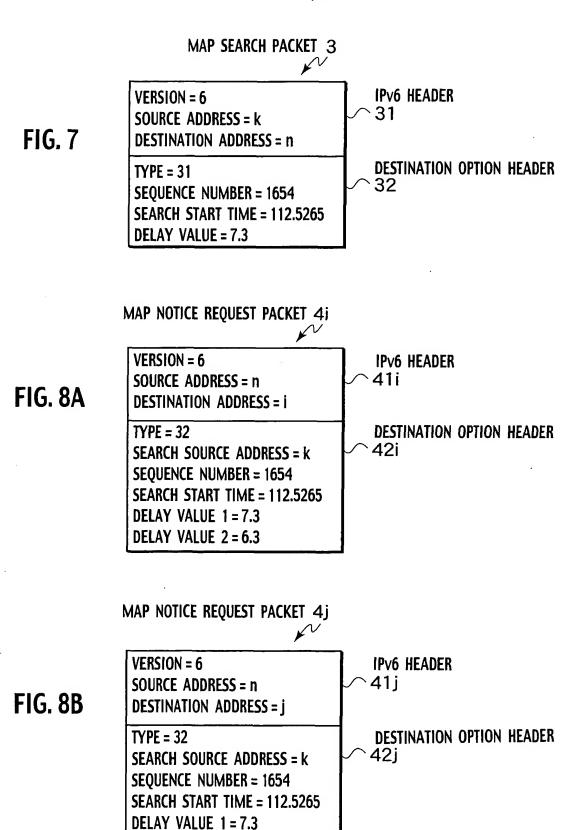
SEQUENCE NUMBER 3	667
INITIAL LIFETIME (sec.)	30
SEARCH LIFETIME (sec.)	15
TIMER (sec.)	52.0121
SMOOTHING FACTOR $oldsymbol{eta}$.	0

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DELAY VALUE 2 = 8.3

MAP NOTICE PACKET 5i

FIG. 9A

VERSION = 6 SOURCE ADDRESS = i DESTINATION ADDRESS = k

TYPE = 33

SEQUENCE NUMBER = 1654

SEARCH START TIME = 112.5265

DELAY VALUE 1 = 7.3

DELAY VALUE 2 = 6.3

PROCESSING CAPABILITY = 01 (HIGH)

IPv6 HEADER 51i

DESTINATION OPTION HEADER

52i

MAP NOTICE PACKET 5j

FIG. 9B

VERSION = 6 SOURCE ADDRESS = j DESTINATION ADDRESS = k

TYPE = 33

SEQUENCE NUMBER = 1654

SEARCH START TIME = 112.5265

DELAY VALUE 1 = 7.3

DELAY VALUE 2 = 8.3

PROCESSING CAPABILITY = 01 (HIGH)

IPv6 HEADER 51j

DESTINATION OPTION HEADER

`52j

FIG. 10

MAP (k)

NEIGHBOR MAP TABLE 16k

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.8	O1 (HIGH)	122	1650	0	
n	7.2	11 (LOW)	900	1654	0	
g	13.0	oo (HIGHEST)	121	1650	0	

SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5465
SMOOTHING FACTOR α	0.5

FIG. 11

MAP (k)

NEIGHBOR MAP TABLE 16k

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	10 (MEDIUM)	900	1654	0	
f	6.5	11 (LOW)	432	1652	2943	623
i	6.6	O1 (HIGH)	900	1654	0	
n	7.2	11 (LOW)	900	1654	0	
g	13.0	OO (HIGHEST)	121	1650	0	

SECOND TABLE 17k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
PROCESSING CAPABILITY	10 (MEDIUM)
TIMER (sec.)	112.5554
SMOOTHING FACTOR α	0.5

FIG. 12

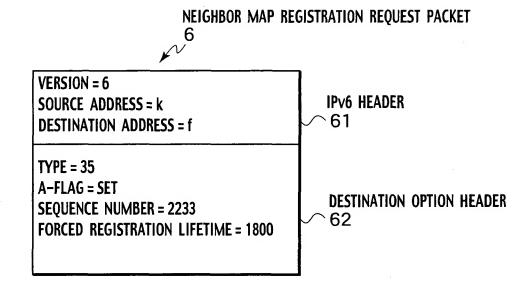


FIG. 13

MAP (f)

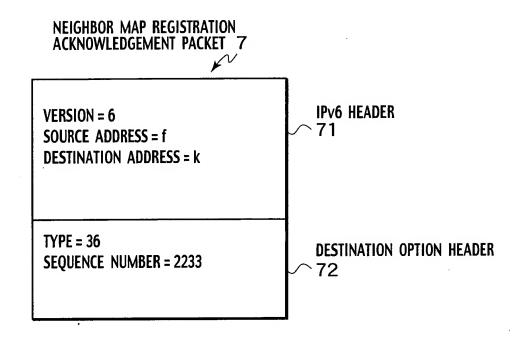
NEIGHBOR MAP TABLE 16f

IP ADDRESS	DELAY VALUE (msec.)	PROCESSING CAPABILITY	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
f	0	10 (MEDIUM)	899	22333	0	
k	6.0	10 (MEDIUM)	150	22330	1800	2233
b	7.6	O1 (HIGH)	226	22328	0	
а	9.2	OO (HIGHEST)	900	22333	0	
d	9.4	11 (LOW)	900	22333	0	

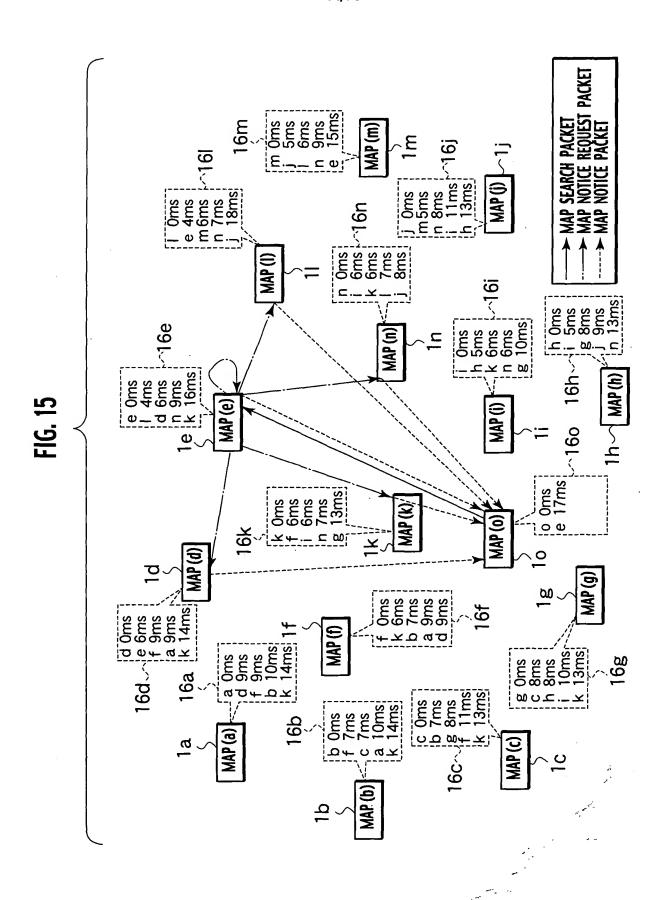
SECOND TABLE 17f

SEQUENCE NUMBER 3	22333
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	623
FORCED REGISTRATION INITIAL LIFETIME (sec.)	3600
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	3000
PROCESSING CAPABILITY	11 (LOW)
TIMER (sec.)	52.0121
SMOOTHING FACTOR α	0.5

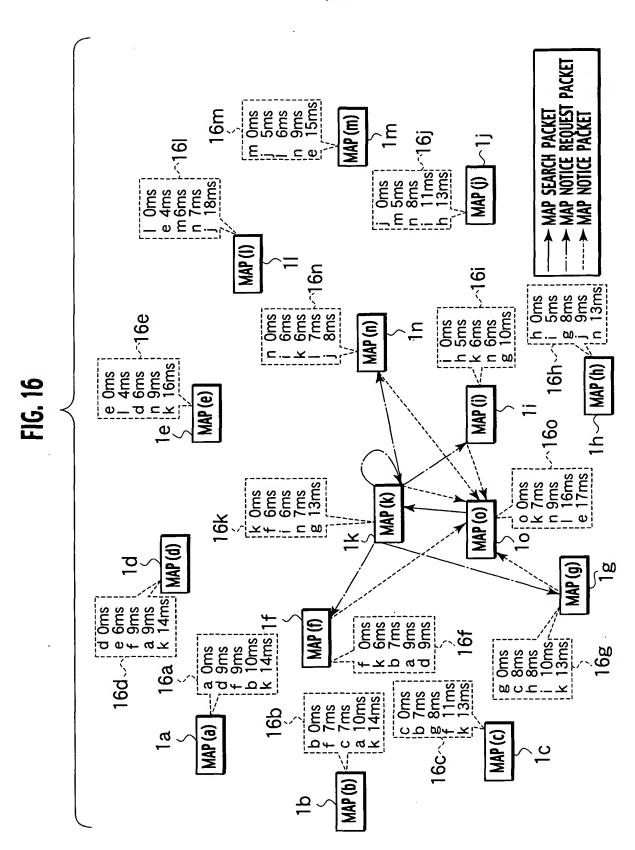
FIG. 14



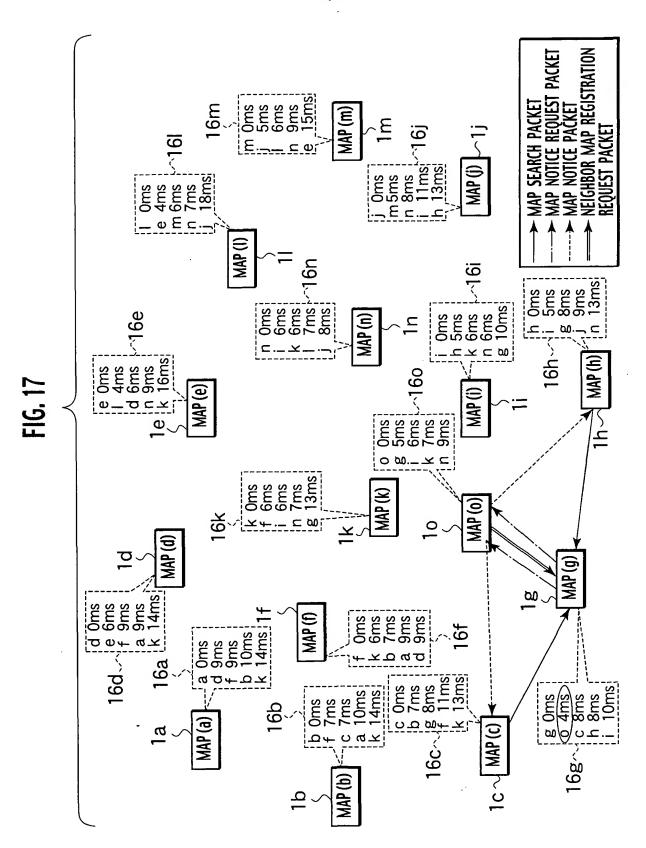
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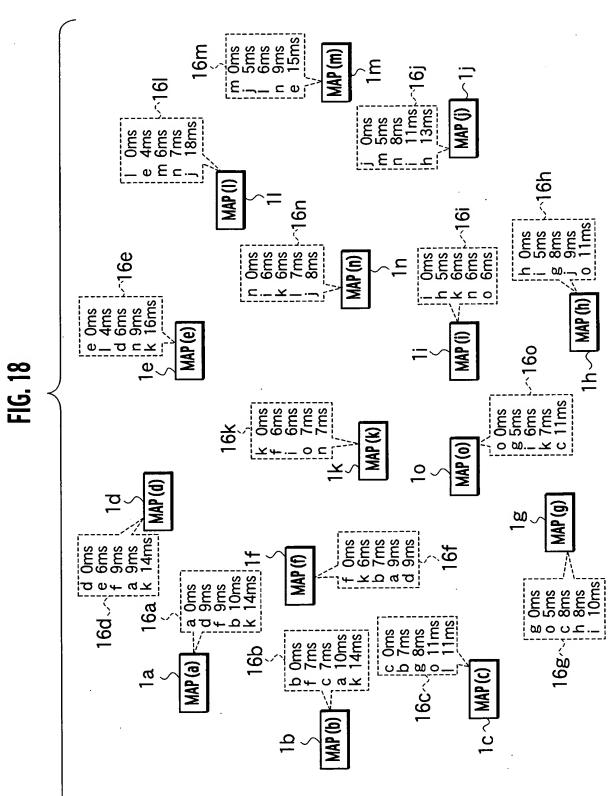
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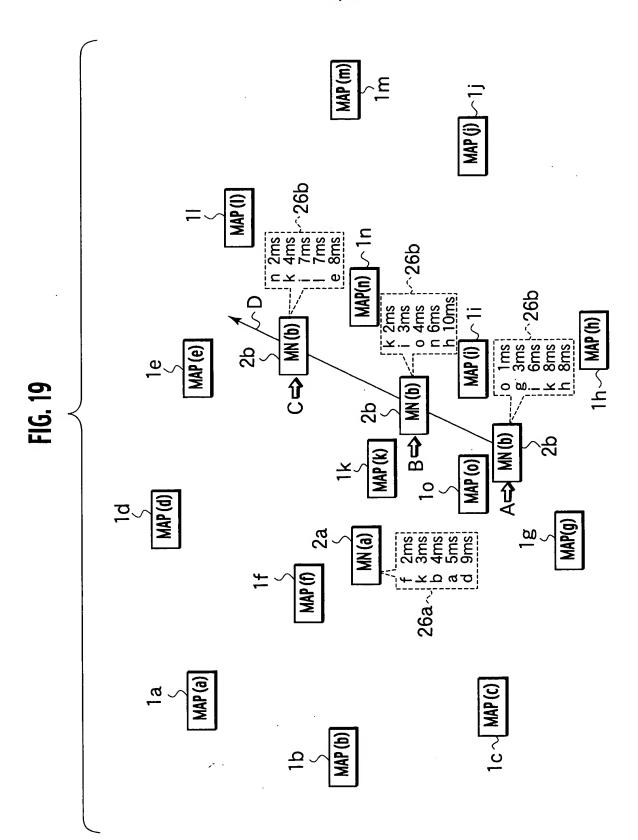


FIG. 20

MAP (k)

NEIGHBOR MAP TABLE 116k

IP ADDRESS	NUMBER OF HOPS	LIFETIME (sec.)	SEQUENCE NUMBER 1	FORCED REGISTRATION LIFETIME (sec.)	SEQUENCE NUMBER 2
k	0	635	1653	0	
f	6	433	1652	2944	623
i	6	122	1650	0	
n	7	61	1649	0	
g	(13)	121	1650	0	

SECOND TABLE 117k

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SEQUENCE NUMBER 3	1653
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1163
INITIAL HL	(13)

FIG. 21

MN(a)

NEIGHBOR MAP TABLE 126a

LIFETIME **SEQUENCE NUMBER** OF HOPS **ADDRESS** NUMBER 1 (sec.) 22 f 2 666 3 22 666 k 4 30 667 b 6 18 663 a 18 663 d 10

SECOND TABLE 127a

SEQUENCE NUMBER 3 667
INITIAL LIFETIME (sec.) 30
SEARCH LIFETIME (sec.) 15
INITIAL HL 255

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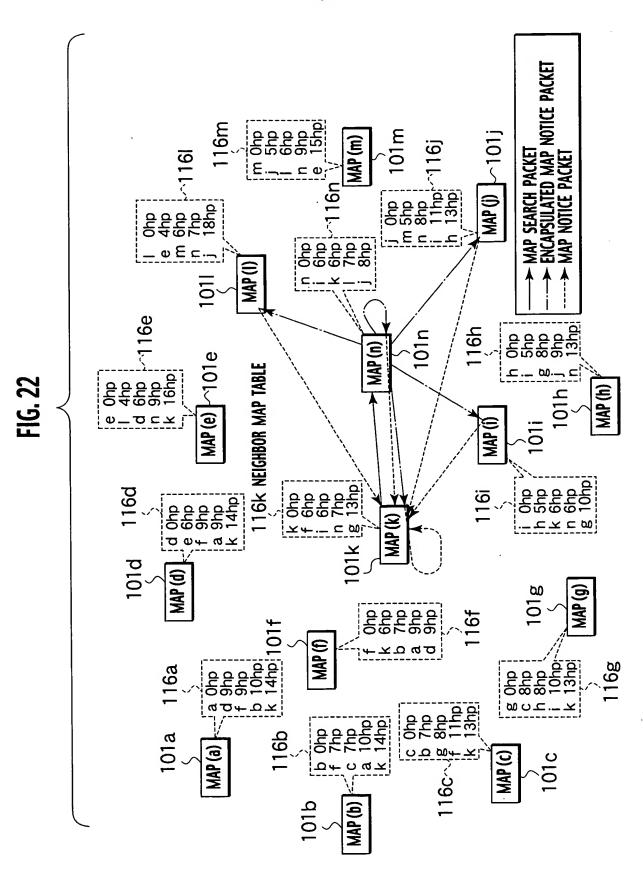


FIG. 23

MAP SEARCH PACKET 103

VERSION = 6 SOURCE ADDRESS = k DESTINATION ADDRESS = n

TYPE = 41
SEQUENCE NUMBER = 1654
INITIAL HL =13

IPv6 HEADER

DESTINATION OPTION HEADER 132

FIG. 24A

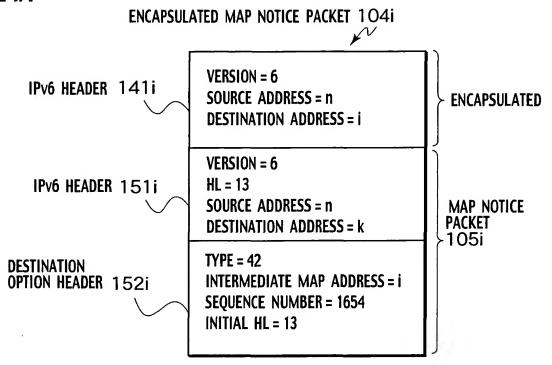


FIG. 24B

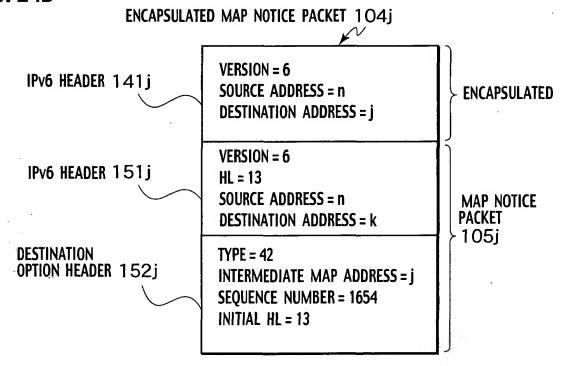


FIG. 25

MAP NOTICE PACKET 105i

VERSION = 6

HL = 7

SOURCE ADDRESS = n DESTINATION ADDRESS = k

TYPE = 42

INTERMEDIATE MAP ADDRESS = i

SEQUENCE NUMBER = 1654

INITIAL HL = 13

IPv6 HEADER 151i

DESTINATION OPTION HEADER

152i

FIG. 26

MAP(k)

NEIGHBOR MAP TABLE 116k

FORCED -LIFETIME SEQUENCE NUMBER 1 SEQUENCE IP **NUMBER** REGISTRATI ON NUMBER 2 **ADDRESS** OF HOPS (sec.) LIFETIME (sec.) 1654 k 0 900 0 6 432 1652 2943 623 6 122 1650 0 7 900 1654 0 n 13 121 1650 g

SECOND TABLE 117k

SEQUENCE NUMBER 3	1654
INITIAL LIFETIME (sec.)	900
SEARCH LIFETIME (sec.)	60
SEQUENCE NUMBER 4	2232
FORCED REGISTRATION INITIAL LIFETIME (sec.)	1800
FORCED REGISTRATION REQUEST TRANSMISSION TIMER (sec.)	1162
INITIAL HL	13

FIG. 27

MAP NOTICE PACKET 105j

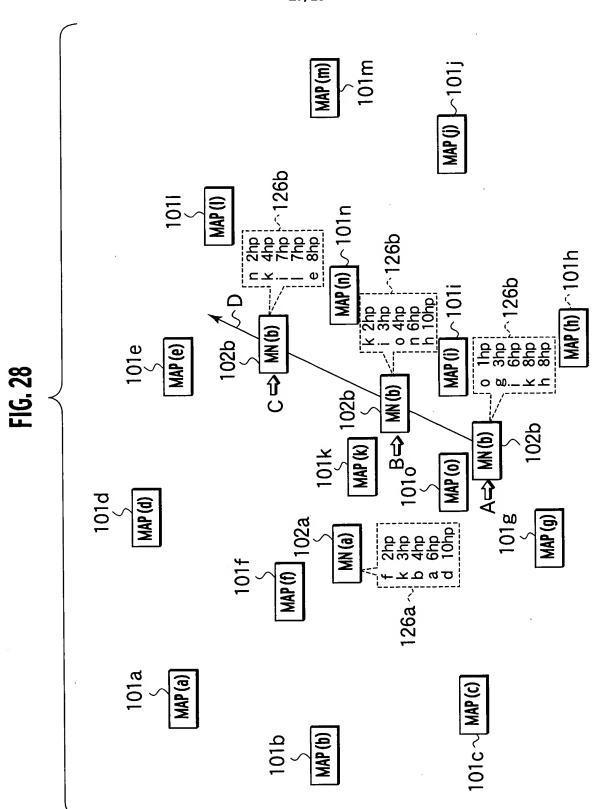
VERSION = 6 HL = 13 SOURCE ADDRESS = n DESTINATION ADDRESS = k

TYPE = 42
INTERMEDIATE MAP ADDRESS = j
SEQUENCE NUMBER = 1654
INITIAL HL = 13

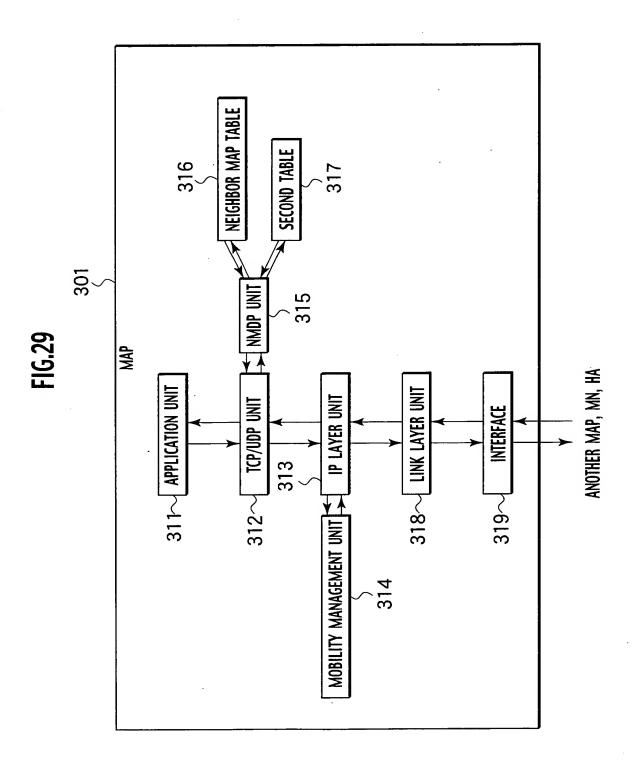
IPv6 HEADER 151j

DESTINATION OPTION HEADER 152j

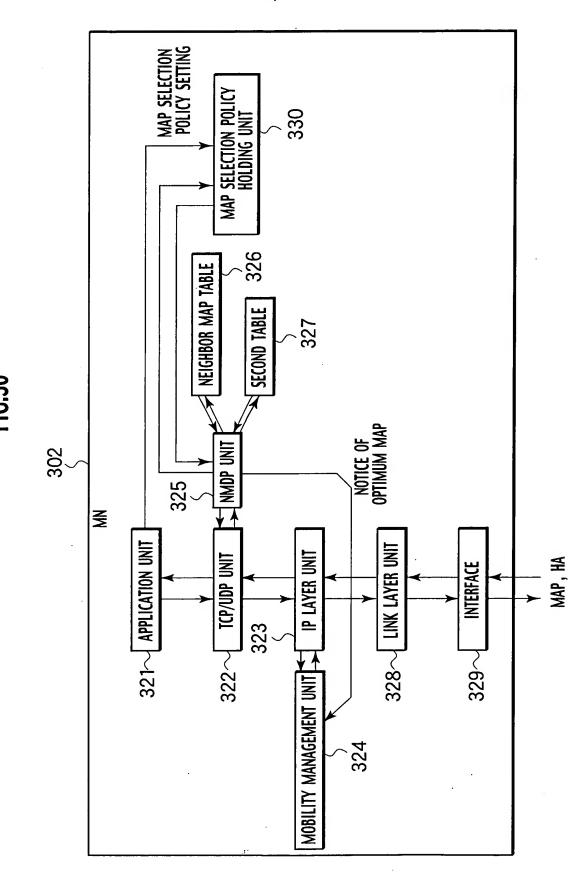




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